



Ratio	****	5	9	15	27	45	81	135	141	243	405	729	1215	2187
1 Number of gear stages		2	2	3	3	4	4	5	5	5	6	6	7	7
2 Direction of rotation		=	=	≠	≠	=	=	≠	≠	≠	=	=	≠	≠
3 Efficiency		0.81	0.81	0.73	0.73	0.65	0.65	0.59	0.59	0.59	0.53	0.53	0.48	0.48
4 L1 (mm)		10.5	10.5	13	13	15.5	15.5	18	18	18	20.5	20.5	23	23
5 Weight g (oz)		7 (0.246)	7 (0.246)	8 (0.282)	8 (0.282)	9 (0.317)	9 (0.317)	10 (0.352)	10 (0.352)	10 (0.352)	11 (0.388)	11 (0.388)	12 (0.423)	12 (0.423)
6 Available with Motor - L2 = Length with motor (mm)														
16C18.....67,76		26.2	26.2	28.7	28.7	31.2	31.2	33.7	33.7	33.7	36.2	36.2	38.7	38.7
16N28.....235		38.5	38.5	41	41	43.5	43.5	46	46	46	48.5	48.5	51	51
16G88.....5		38.5	38.5	41	41	43.5	43.5	46	46	46	48.5	48.5	51	51
17S78.....5		29.2	29.2	31.7	31.7	34.2	34.2	36.7	36.7	36.7	39.2	39.2	41.7	41.7
17N78.....5		36.4	36.4	38.9	38.9	41.4	41.4	43.9	43.9	43.9	46.4	46.4	48.9	48.9
P110.....8		29.5	29.5	32	32	34.5	34.5	37	37	37	39.5	39.5	42	42

Characteristics		B16 • 0 •	B16 2R • 0 •
7 Shaft Bearings		Sleeve	Ball Bearing
8 Maximum Static Torque	Nm (oz-in)	0.4 (56)	0.4 (56)
9 Maximum Radial Force			
@ 8mm from mounting face	N (lb)	5 (1.1)	10 (2.2)
10 Maximum Axial force	N (lb)	5 (1.1)	10 (2.2)
11 Maximum press fit force	N (lb)	100 (23)	100 (23)
12 Average Backlash @ no-load		1.5°	1.5°
13 Average Backlash @ 3 Nm		3°	3°
Shaft play:			
14 -radial	µm	≤ 20	≤ 10
15 -axial	µm	50-150	≤ 100
16 Maximum Recommended Input speed	rpm	8000	8000
17 Operating Temperature Range:	°C (°F)	-30 to +65 (-22 to +150)	

